

IN THE CLAIMS:

1. (Currently Amended) A downhole component adapted for transmitting downhole data, the component comprising: a data transmission element and an elongate, generally tubular body with a threaded end, the threaded end having an interior region, an exterior region, and a mating surface; a cavity formed in the mating surface of the threaded end, wherein the data transmission element is disposed in the cavity and at least partially displacing a volume of the cavity, and; at least one passageway formed in the threaded end in fluid communication with the interior and exterior regions; wherein a second passageway formed in the threaded end is in fluid communication with an axially oriented passageway in the downhole component and at least one of the interior and exterior regions.

2. (Canceled)

3. (Currently Amended) The downhole component of claim 1 wherein the axially oriented passageway is in fluid communication with the cavity and at least one of the interior and exterior regions.

4. (Original) The downhole component of claim 1 wherein the passageway is in fluid communication with the cavity.

5. (Original) The downhole component of claim 1 wherein a third passageway is in fluid communication with the cavity and the passageway.

6. (Original) The downhole component of claim 1 wherein the component has a plurality of passageways in fluid communication with the interior and exterior regions.

7. (Original) The downhole component of claim 1 wherein the data transmission element is

movable and changes the displaced volume of the cavity as it moves.

8. (Original) The downhole component of claim 1 wherein the component is selected from the group consisting of drill collars, jars, heavy weight drill pipe, drill bits, and drill pipe.

9. (Currently Amended) A downhole component adapted for transmitting downhole data, the component comprising: a data transmission element and an elongate, generally tubular body with a threaded end, the threaded end having an interior region, an exterior region, and a mating surface; a cavity formed in the mating surface of the threaded end, wherein the data transmission element is disposed in the cavity and at least partially displacing a volume of the cavity, and; at least one passageway formed in the threaded end in fluid communication with the cavity and at least one of the interior and exterior regions; wherein a second passageway formed in the threaded end is in fluid communication with an axially oriented passageway in the downhole component and at least one of the interior and exterior regions.

10. (Canceled)

11. (Currently Amended) The downhole component of claim 9 wherein the axially oriented passageway is in fluid communication with the cavity and at least one of the interior and exterior regions.

12. (Original) The downhole component of claim 9 wherein an axially oriented passageway is in fluid communication with the cavity.

13. (Original) The downhole component of claim 9 wherein a third passageway is in fluid communication with the cavity and the passageway.

14. (Original) The downhole component of claim 9 wherein the component has a plurality of passageways in fluid communication with the interior and exterior regions.
15. (Original) The downhole component of claim 9 wherein the data transmission element is movable and changes the displaced volume of the cavity as it moves.
16. (Original) The downhole component of claim 9 wherein the component is selected from the group consisting of drill collars, jars, heavy weight drill pipe, drill bits, and drill pipe.